IN THE CLAIMS:

Applicants respectfully request amendment of Claims 1, 15, 16, 27, 37, 38, 41, 44, 47, and 48 as follows:

1. (Currently Amended) A medical needle shield apparatus comprising:

a shield being extensible from a retracted position to an extended position to enclose a

distal end of a needle;

a binding member disposed within the shield and comprising defining binding surfaces

that define form an aperture configured for slidable receipt of the needle between the retracted

position and the extended position,

the binding member including a retainer extending therefrom such that the

retainer is engageable with the needle to prevent inclination of the binding member while

the retainer is engaged with the needle;

the binding member further comprising including one or more drag

inducing members that engage the needle during slidable receipt of the needle to create a

drag force with the needle, the drag force and shield facilitating inclination rotation of the

binding member relative to a longitudinal axis of the needle once the retainer extends

beyond the distal end of the needle such that the binding surfaces engage the needle to

prevent slidable movement of the needle in the extended position of the shield; and

the binding member-further including a retainer extending therefrom such

that the retainer is engageable with the needle to prevent inclination rotation of the

binding-member-prior to the extended position; and

a hub retainer being configured to engage a catheter hub.

Group Art Unit: 3763

Confirmation No.: 5916

2. (Original) A medical needle shield apparatus as recited in claim 1, wherein the

binding member includes a substantially planar aperture plate that includes the binding surfaces

that form the aperture.

3. (Original) A medical needle shield apparatus as recited in claim 2, wherein the

aperture plate is substantially perpendicular relative to the longitudinal axis of the needle due to

engagement of the retainer with the needle prior to the shield being in the extended position.

4. (Original) A medical needle shield apparatus as recited in claim 1, wherein the

retainer includes a first portion extending from the binding member and a second portion

extending from the first portion.

5. (Original) A medical needle shield apparatus as recited in claim 4, wherein the

first portion extends from the binding member in substantially parallel alignment with the needle

due to engagement of the retainer with the needle.

6. (Original) A medical needle shield apparatus as recited in claim 4, wherein the

second portion extends transversely relative to the longitudinal axis of the needle and is

configured for engagement with the needle.

7. (Original) A medical needle shield apparatus as recited in claim 6, wherein the

second portion has a substantially planar portion for engagement with the needle.

8. (Original) A medical needle shield apparatus as recited in claim 1, wherein the at

least one drag inducing member includes the aperture of the binding member such that the

aperture engages the needle to create the drag force with the needle.

9. (Original) A medical needle shield apparatus as recited in claim 1, wherein the at

least one drag inducing member includes a pair of friction members that extend to engage the

Group Art Unit: 3763 Confirmation No.: 5916

needle to create the drag force with the needle.

10. (Original) A medical needle shield apparatus as recited in claim 1, wherein the at

least one drag inducing member includes at least one friction member disposed on the needle.

11. (Original) A medical needle shield apparatus as recited in claim 1, wherein the at

least one drag inducing member is integral to the binding member.

12. (Original) A medical needle shield apparatus as recited in claim 1, wherein the at

least one drag inducing member includes a material having a smaller aperture than the aperture

of the binding member.

13. (Original) A medical needle shield apparatus as recited in claim 12, wherein the

material is formed of a resilient material.

14. (Original) A medical needle shield apparatus as recited in claim 1, wherein the at

least one drag inducing member includes a separate unitary friction element disposed on the

medical needle.

15. (Currently Amended) A medical needle shield apparatus as recited in claim 14,

wherein the unitary friction element includes friction elements for inclining eanting the binding

member and the aperture of the binding member is disposed between the friction elements.

16. (Currently Amended) A medical needle shield apparatus as recited in claim 1,

wherein the at least one drag inducing members includes separate friction elements disposed on

the needle for inclining eanting the binding member, and the aperture of the binding member is

disposed between the friction elements.

17. (Original) A medical needle shield apparatus as recited in claim 1, wherein the

shield includes a housing that defines at least one blocking member extending from an interior

surface thereof, the at least one blocking member being engageable with the binding member for

Application No. 10/660,083

Filed: September 11, 2003 Group Art Unit: 3763

Confirmation No.: 5916

urging the binding member to the binding orientation.

18. (Original) A medical needle shield apparatus as recited in claim 1, wherein the

binding member is rotatable, relative to the longitudinal axis of the needle, between a non-

binding orientation whereby the needle is slidable relative to the binding member and a binding

orientation whereby the binding surfaces engage the needle to prevent slidable movement of the

needle in the extended position of the shield.

19. (Original) A medical needle shield apparatus as recited in claim 1, further

comprising a rotatable housing for relative rotational movement about the needle.

20. (Original) A medical needle shield apparatus as recited in claim 19, wherein the

shield is supported for relative rotational movement by the rotatable housing by at least one

bearing.

21. (Original) The medical needle shield apparatus according to claim 20, wherein the

hub retainer is disposed on the at least one bearing.

22. (Original) The medical needle shield apparatus according to claim 20, wherein the

at least one bearing defines at least one blocking member extending from an interior surface

thereof, the at least one blocking member being engageable with the binding member for urging

the binding member to the binding orientation.

23. (Original) The medical needle shield apparatus according to claim 1, wherein the

hub retainer is disposed on the housing.

24. (Original) The medical needle shield apparatus according to claim 1, wherein the

retainer and hub retainer are monolithically formed such that the hub retainer extends from the

retainer.

Group Art Unit: 3763

Confirmation No.: 5916

25. (Original) A medical needle shield apparatus as recited in claim 1, further

comprising a means for extending the shield to the distal end of the needle.

26. (Original) A medical needle shield apparatus as recited in claim 1, further

comprising a retainer shield to protect the hub retainer from being inadvertently moved from its

intended position.

27. (Currently Amended) A medical needle shield apparatus comprising:

a shield being extensible from a retracted position to an extended position to enclose a

distal end of a needle;

a binding member disposed within the shield and including an aperture for slidable

receipt of the needle between the retracted position and the extended position,

the binding member comprising including a retainer means for preventing

inclination rotation of the binding member;

the binding member further comprising defining a drag inducing means for

facilitating inclination rotation of the binding member relative to a longitudinal axis of

the needle by frictional drag forces between the drag inducing means and needle once the

retainer extends beyond the distal end of the needle, and a-binding surface means for

engaging the needle to prevent slidable movement of the needle in the extended position

of the shield; and

the binding member further including a retainer means for preventing rotation of

the binding member; and

a-hub retainer means for releasably engaging a catheter hub.

28. (Original) A medical needle shield apparatus as recited in claim 27, wherein the

binding member is rotatable, relative to the longitudinal axis of the needle, between a non-

Group Art Unit: 3763

Confirmation No.: 5916

binding orientation whereby the needle is slidable relative to the binding member and a binding

orientation whereby the binding surface means engages the needle to prevent slidable movement

of the needle in the extended position of the shield.

29. (Original) A medical needle shield apparatus as recited in claim 27, further

comprising a rotatable housing for relative rotational movement about the needle.

30. (Original) A medical needle shield apparatus as recited in claim 29, wherein the

shield is supported for relative rotational movement by the rotatable housing by at least one

bearing.

31. (Original) A medical needle shield apparatus as recited in claim 30, wherein the

hub retainer means is disposed on the at least one bearing.

32. (Original) A medical needle shield apparatus as recited in claim 30, wherein the at

least one bearing defines at least one blocking member extending from an interior surface

thereof, the at least one blocking member being engageable with the binding member for urging

the binding member to the binding orientation.

33. (Original) A medical needle shield apparatus as recited in claim 27, wherein the

hub retainer means is disposed on the housing.

34. (Original) A medical needle shield apparatus as recited in claim 27, wherein the at

least one drag inducing member includes at least one friction member disposed on the needle.

35. (Original) A medical needle shield apparatus as recited in claim 27, wherein the at

least one drag inducing member is integral to the binding member.

36. (Original) A medical needle shield apparatus as recited in claim 27, wherein the at

least one drag inducing member includes a separate unitary friction element disposed on the

medical needle.

Group Art Unit: 3763

Confirmation No.: 5916

37. (Currently Amended) A medical needle shield apparatus as recited in claim 36,

wherein the unitary friction element includes friction elements for inclining eanting the binding

member and the aperture of the binding member is disposed between the friction elements.

38. (Currently Amended) A medical needle shield apparatus as recited in claim 27,

wherein the at least one drag inducing members includes separate friction elements disposed on

the needle for inclining earting the binding member, and the aperture of the binding member is

disposed between the friction elements.

39. (Original) A medical needle shield apparatus as recited in claim 27, further

comprising a means for extending the shield to the distal end of the needle.

40. (Original) A medical needle shield apparatus comprising:

a shield being extensible from a retracted position to an extended position to enclose a distal

end of a needle;

a rotatable housing that encloses the shield, the rotatable housing supporting the

shield for relative rotational movement therewith; and

a hub retainer being configured to engage a catheter hub.

41. (Currently Amended) A medical needle shield apparatus as recited in claim 41,

further comprising:

a binding member disposed within the shield and comprising defining binding

surfaces that define form an aperture configured for slidable receipt of the needle between the

retracted position and the extended position,

the binding member including a retainer extending therefrom such that the

retainer is engageable with the needle to prevent inclination of the binding member while

the retainer is engaged with the needle; and

Application No. 10/660,083

Filed: September 11, 2003 Group Art Unit: 3763

Confirmation No.: 5916

the binding member <u>further comprising</u> including one or more drag

inducing members that engage the needle during slidable receipt of the needle to create a

drag force with the needle, the drag force and shield facilitating inclination rotation of the

binding member relative to a longitudinal axis of the needle once the retainer extends

beyond the distal end of the needle such that the binding surfaces engage the needle to

prevent slidable movement of the needle in the extended position of the shield, and

the binding member-further including a retainer extending therefrom such

that the retainer is engageable with the needle to prevent rotation of the binding-member

prior to the extended position.

42. (Original) A medical needle shield apparatus as recited in claim 41, wherein the

shield is supported for relative rotational movement by the rotatable housing by at least one

bearing.

43. (Original) A medical needle shield apparatus comprising:

a shield being extensible from a retracted position to an extended position to

enclose a distal end of a needle;

a locking means for locking the shield to the needle in the extended position;

an end sensing member disposed in the shield and engaging the needle for

activating the locking means upon sensing the distal end of the needle; and

a hub retainer being configured to engage the end sensing member and an inner

portion of a catheter hub such that upon activation of the locking means the end sensing member

causes the hub retainer to release the catheter hub therefrom.

44. (Currently Amended) A medical needle shield apparatus as recited in claim 43,

wherein the locking means comprises:

> Group Art Unit: 3763 Confirmation No.: 5916

a binding member disposed within the shield and comprising defining binding

surfaces that <u>define</u> form an aperture configured for slidable receipt of the needle between the

retracted position and the extended position,

the binding member including a retainer extending therefrom such that the

retainer is engageable with the needle to prevent inclination of the binding member while

the retainer is engaged with the needle, and

the binding member further comprising including one or more drag

inducing members that engage the needle during slidable receipt of the needle to create a

drag force with the needle, the drag force and shield facilitating inclination rotation of the

binding member relative to a longitudinal axis of the needle once the retainer extends

beyond the distal end of the needle such that the binding surfaces engage the needle to

prevent slidable movement of the needle in the extended position of the shield, and

the binding member-further including a retainer extending therefrom such

that the retainer is engageable with the needle to prevent rotation of the binding member

prior to the extended position.

45. (Original) A medical needle shield apparatus as recited in claim 43, wherein the

locking means comprises:

a binding member disposed within the shield and defining binding surfaces that

bind to the needle as the shield is in the extended position;

a sliding member disposed within the shield for slidable receipt of the needle

between the retracted position and the extended position, the sliding member including a cavity

for receipt of the binding member; and

Group Art Unit: 3763

Confirmation No.: 5916

ramp surfaces disposed on the shield for positioning the binding member in

locking engagement with the needle in the extended position.

46. (Original) A medical needle shield apparatus comprising:

a shield being extensible from a retracted position to an extended position to enclose a distal

end of a needle;

a hub retainer being configured to engage a catheter hub,

the shield further including a control surface for engaging an outer surface the

catheter hub for guiding and supporting extension of the catheter hub therefrom.

47. (Currently Amended) A medical needle shield apparatus as recited in claim 46,

further comprising:

a binding member disposed within the shield and comprising defining binding

surfaces that <u>define</u> form an aperture configured for slidable receipt of the needle between the

retracted position and the extended position,

the binding member comprising a retainer extending therefrom such that

the retainer is engageable with the needle to prevent inclination of the binding member

while the retainer is engaged with the needle, and

the binding member further comprising including one or more drag

inducing members that engage the needle during slidable receipt of the needle to create a

drag force with the needle, the drag force and shield facilitating inclination rotation of the

binding member relative to a longitudinal axis of the needle once the retainer extends

beyond the distal end of the needle such that the binding surfaces engage the needle to

prevent slidable movement of the needle in the extended position of the shield, and

Application No. 10/660,083

Filed: September 11, 2003 Group Art Unit: 3763

Confirmation No.: 5916

the binding member further including a retainer extending therefrom such

that the retainer is engageable with the needle to prevent rotation of the binding member

prior to the extended position.

48. A medical needle shield apparatus comprising:

a shield being extensible from a retracted position to an extended position to

enclose a distal end of a needle;

a binding member disposed within the shield and comprising defining binding

surfaces that define form an aperture,

the binding member comprising a retainer extending therefrom such that

the retainer is engageable with the needle to prevent inclination of the binding member

while the retainer is engaged with the needle, and

the binding member further comprising including one or more drag

inducing members that engage the needle; and

the binding member further including a retainer extending therefrom such

that the retainer is engageable with the needle to prevent rotation of the binding member

prior to the extended position; and

a hub retainer being configured to engage a catheter hub.